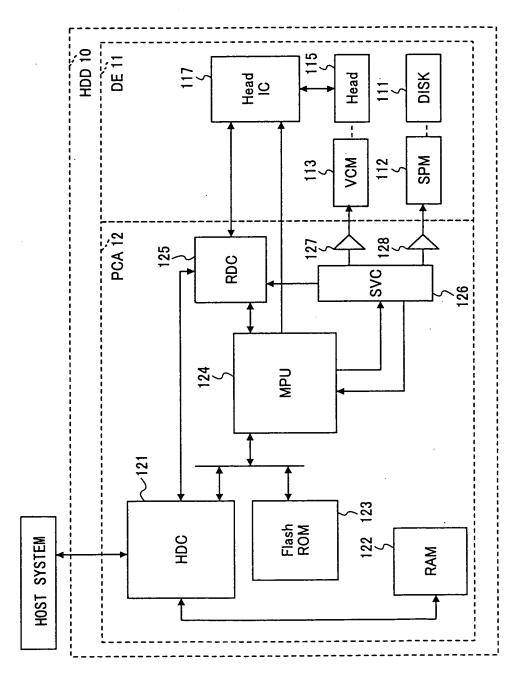
0 0 (e) [0]0

F1G. 1A

FIG. 1B

F1G. 2



DISK UNIT

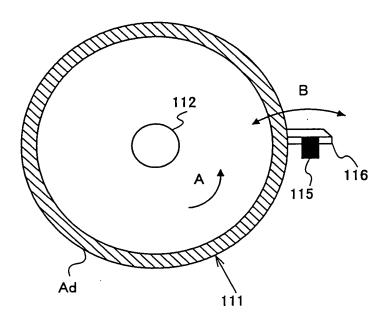
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FIG. 3



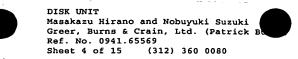
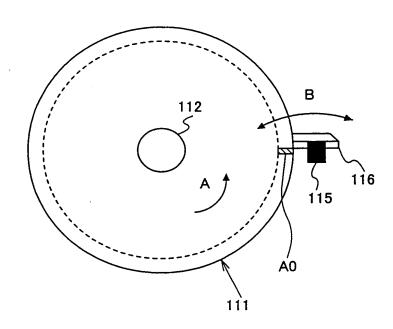
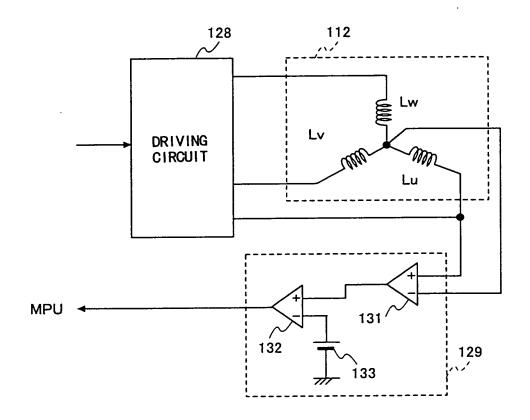


FIG. 4



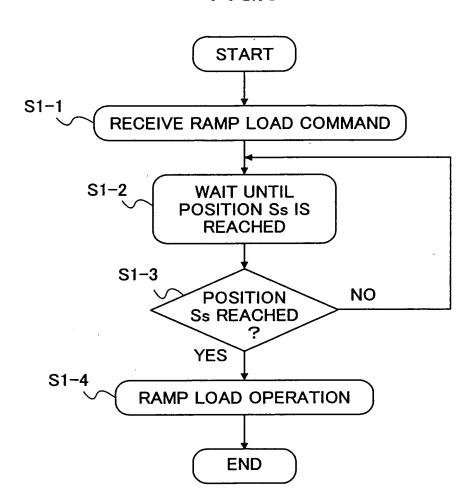
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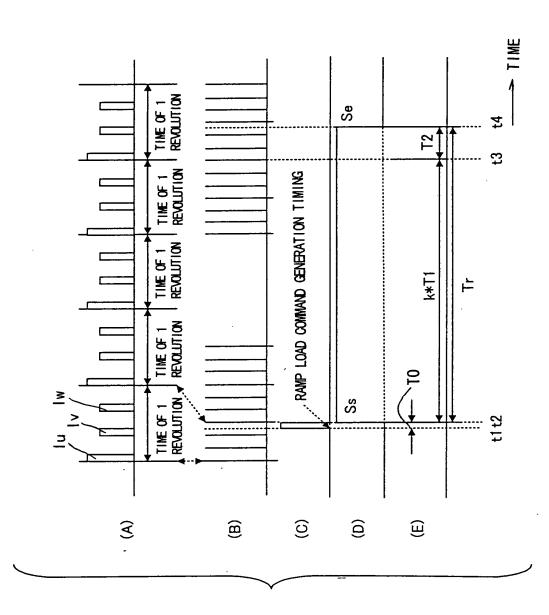
FIG. 5



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FIG.6



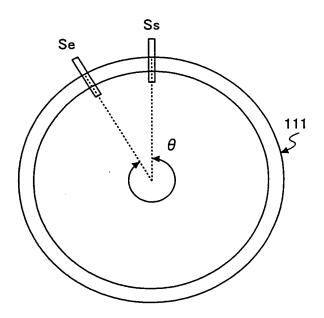


:16.7



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FIG. 8



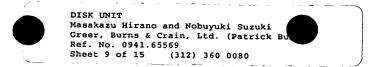
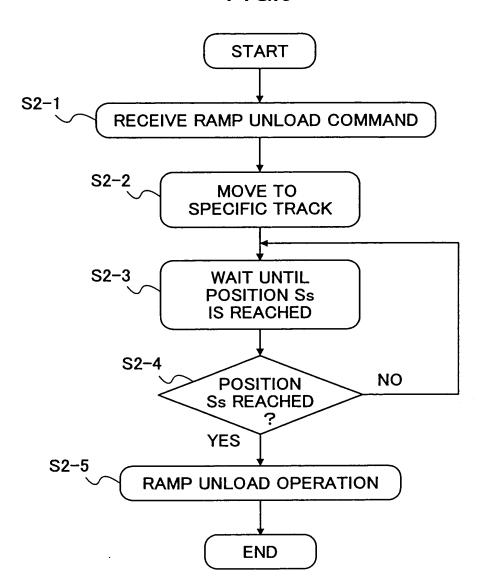


FIG.9



DISK UNIT

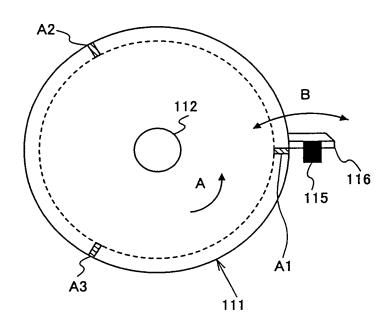
Masakazu Hirano and Nobuyuki Suzuki

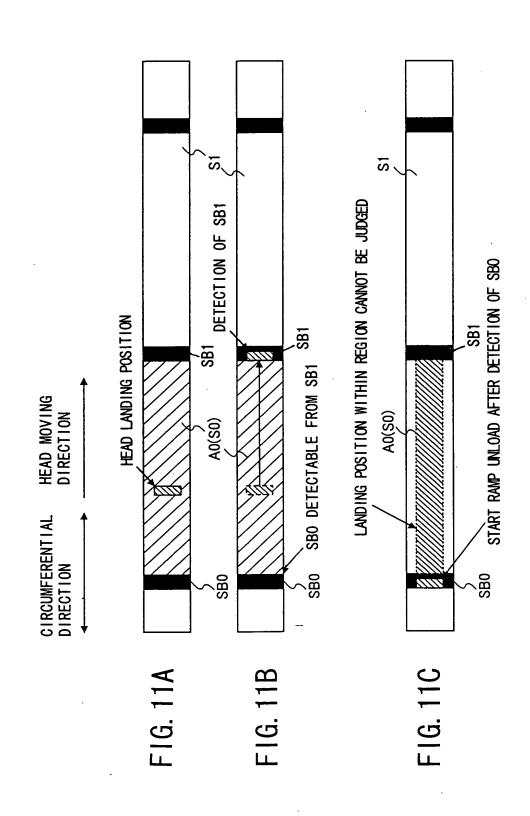
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FIG. 10





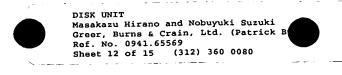


FIG. 12

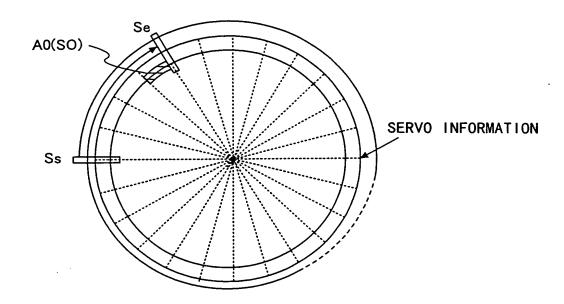
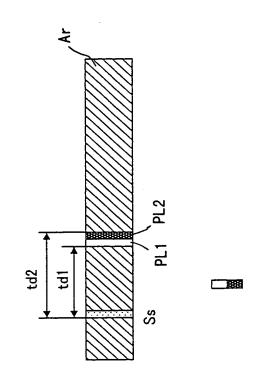
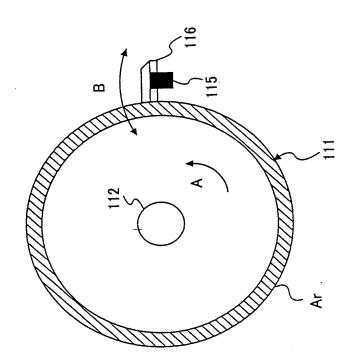


FIG. 13B



F1G. 13A



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FIG.14 START S3-1 RECEIVE RAMP LOAD OR UNLOAD COMMAND S3-2 READ DELAY TIMER VALUE S3 - 3WAIT FOR INDEX PULSE S3-4 **INDEX** NO PULSE RECEIVED YES S3-5 **OPERATE DELAY TIMER** S3-6 WAIT FOR RAMP LOAD OR **UNLOAD START TIME** S3-7 NO **START** TIME? YES S3-8 RAMP LOAD OR UNLOAD OPERATION S3-9 STORE NEW DELAY TIMER VALUE

END

